



5-Year Capital Improvement Plan
FY 19 through FY23

Executive Summary

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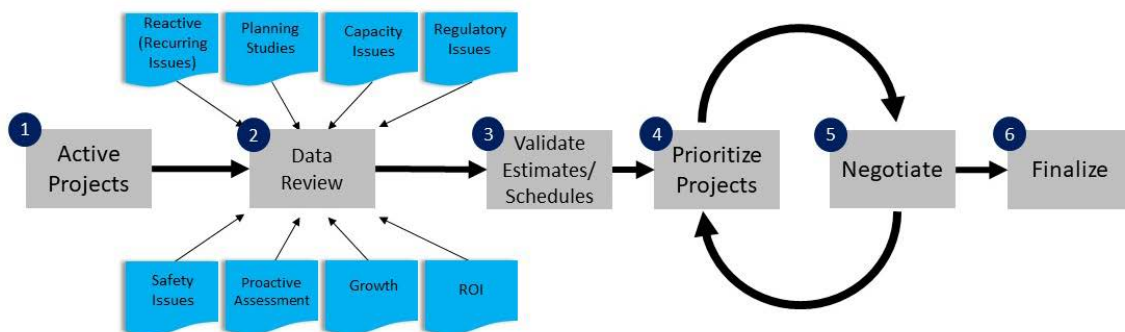
The Renewable Water Resources (ReWa) Capital Improvement Plan (CIP) is a five-year outlook that projects the Utility's spending for anticipated capital needs. This plan addresses the repair, replacement and relocation of existing sewer system infrastructure, as well as the development or acquisition of new facilities, infrastructure, property, and equipment. The CIP serves as a tool to identify anticipated capital needs, coordinate those needs with financing and forecast the projected timing of the needed improvements.

ReWa annually develops a five-year CIP for the Board of Commissioners' (Board) consideration as a part of the annual budget approval process for the Utility. Updates on currently active projects, as well as new project requests, are collected mid-year from the various Engineering Department Project Managers as well as the managers and directors of the various ReWa Operations and Administrative departments.

Each identified project that is either a new project or in the early stages of design is evaluated through a collaborative project prioritization process. All project information is reviewed and analyzed by Senior Management and Director Level staff to establish an initial five-year CIP. This initial CIP is then analyzed in the context of the utility's overall financial plan, and projected spending is matched with fund balance projections, debt funding capabilities and other financial metrics to maintain a sustainable and cost-effective operation. The initial five-year CIP is then adjusted, and the process is reiterated as necessary until a sustainable final plan is developed. The CIP development process is generally illustrated in the following graphic:

CIP Planning Overview

Process Step



The first year of the five-year CIP is the basis for the annual budget for the ensuing fiscal year with respect to capital improvements and related professional services. The CIP is coordinated with the Utility's operating budget, as it can have an impact on staffing, materials and services of that operating budget.

The Utility's operations are generally large enough that the impact of any one capital improvement project on operating cost is relatively small. In total, however, the cumulative impacts can be significant enough to warrant additions in the operating budget. These impacts are often partially offset by savings achieved using new capital technology, increases in chemical and equipment operating efficiency and/or reductions in operating and maintenance time for utility staff. In addition to considering direct operational budget impacts, ReWa also considers operational efficiencies and long-term viability of the infrastructure system to meet growing capacity needs.

Improvements at Water Resource Recovery Facilities (WRRF) can arise from a need for increased capacity due to growth, to improve process operations and efficiencies, to replaced aged or inadequate equipment or can be driven by regulatory changes. Similar improvement drivers exist for gravity sewer interceptors, pump stations and force mains. In addition, new sewer infrastructure may need to be implemented within ReWa's service territory to meet the growth needs of our region. ReWa will collaboratively share capital costs on certain approved projects with cities, counties, sewer subdistricts and developers. The CIP does not include sewer collection system projects that are wholly designed, managed and maintained by our 18 sewer subdistrict partners.

The CIP is broken down into budget categories to better allocate, track and project needed expenditures for the utility. A brief description of each budget category is as follows:

- **Conveyance System: Lines** - gravity sewer interceptor improvements involving point repairs, sewer linings, and pipe replacements/upsizing
- **Conveyance System: PS & FM** - pump station and force main improvements including equipment and piping renewal/replacement, capacity increases and existing station eliminations
- **New Service Area** - new sewer infrastructure systems to provide service to currently unserved areas with the current ReWa service territory
- **O&M Capital** - various tools, equipment and vehicles necessary for operation, maintenance and management of the utility
- **Other Priority Projects** - miscellaneous improvements projects that benefit the utility operations, programs and customer service
- **Renewable Resources** - projects involving solar energy, gas energy, reclaimed water, biosolids and other renewable energy resources
- **Retail Collection Systems** - sewer, pump station and force main projects for ReWa owned and operated retailed collection systems
- **System Planning** - studies, modeling, programs and planning efforts to support the utility's sewer service mission
- **Technical Planning & Integration** - information technology systems, programs, hardware and software to support utility operations

- **WRRF Facilities** - wastewater plant improvements including equipment and piping renewal/replacement, capacity increases, process improvements and regulatory requirements

The status of each project within the 5-year CIP has been identified on project summary spreadsheet contained in Section 2. A brief description of the status codes is as follows:

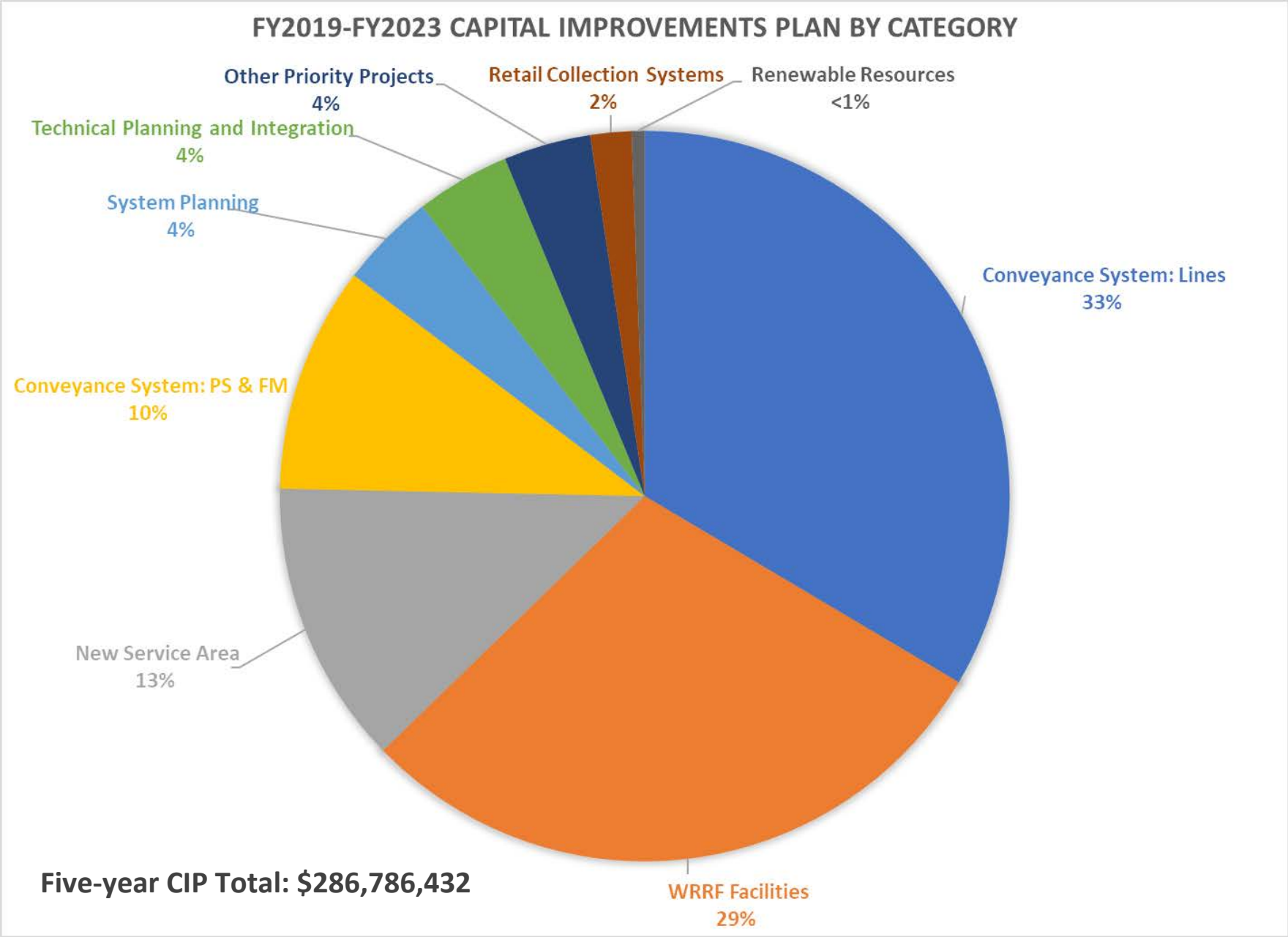
- **NS** - project has not been started at the time of the 2019 budget approval
- **S** - project is currently in the study phase of project development
- **D** - project is currently in the design phase of project development
- **C** - project is currently in construction
- **RI** - Typically a grouping of smaller, similar type of projects that that are in various stages of development
- **N/A** - Project does not fit the traditional status structure above

The primary project driver, or need, for each project has also been determined to better identify and understand the reasons and trends in projected capital spending. A listing of project drivers are as follows:

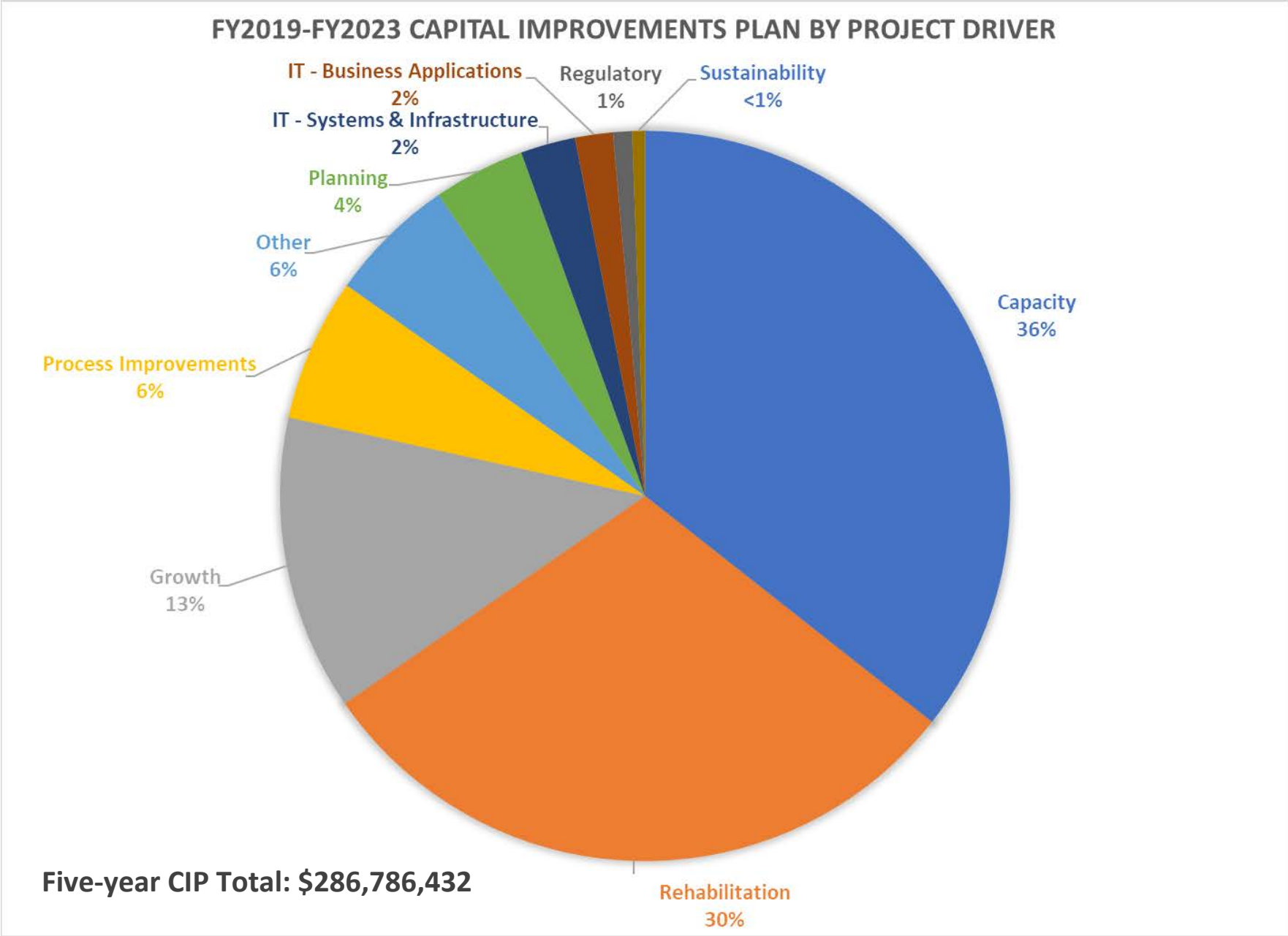
- Capacity
- Rehabilitation
- Growth
- Process Improvements
- New Regulatory
- Systems & Infrastructure
- Business Applications
- Planning
- Sustainability
- Other

The projected five-year capital expenditure total for the FY 19 through FY 23 CIP is estimated at \$285,786,000. Section 2, Plan Summary, provides an overall listing of the identified projects, by budget category, for this 5-year CIP. Specific project information for those individual projects accounting for more than \$1.0M expenditure over this 5-year window can be found under Major Capital Projects, Sections 5 through 13, of this report. Section 4, Project Prioritization, identifies the metrics for scoring and the actual scores for each project in the plan. It should be noted that active construction projects and reoccurring tasks/expenditures were omitted from this prioritization effort.

The five-year Capital Improvement Plan, broken down by Plan Category, is illustrated in the following chart:



The five-year Capital Improvement Plan, broken down by Project Driver, is illustrated in the following chart:





5-Year Capital Improvement Plan
FY 19 through FY23

Plan Summary

FY2019-FY2023 Capital Improvements Plan Summary

Project Category and Name	Sum of 2019	Sum of 2020	Sum of 2021	Sum of 2022	Sum of 2023	Sum of 5-Year CIP Total	Sum of Beyond 2023
System Planning	2,937,759	4,261,240	2,804,986	1,027,928	860,236	11,892,149	-
Conveyance System: Lines	20,835,329	34,988,301	16,888,157	10,398,015	11,001,551	94,111,354	87,273,901
Conveyance System: PS & FM	6,620,038	4,539,597	7,657,043	6,041,887	3,243,387	28,101,952	30,927,359
Renewable Resources	1,626,000	-	-	-	-	1,626,000	1,800,000
Other Priority Projects	4,101,480	2,037,371	1,611,509	1,500,038	1,590,812	10,841,211	22,366,786
WRRF Facilities	16,391,951	17,521,405	17,492,528	16,913,867	13,708,046	82,027,796	54,924,119
New Service Area	3,229,811	2,027,586	9,150,906	15,091,551	5,861,842	35,361,696	124,240,000
Retail Collection Systems	1,265,261	820,212	480,652	1,449,901	1,084,447	5,100,474	600,000
Technical Planning and Integration	2,272,298	2,504,026	2,362,493	2,362,492	2,222,492	11,723,802	623,219
Contingency	997,260	1,002,740	1,000,000	1,000,000	1,000,000	5,000,000	-
Grand Total	60,277,188	69,702,478	59,448,274	55,785,679	40,572,814	285,786,433	322,755,384

FY2019-FY2023 Capital Improvements Plan Project List

Project Category and Name	Project ID	Status	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	5-Year Total	Beyond FY 2023
System Planning			2,937,759	4,261,240	2,804,986	1,027,928	860,236	11,892,149	
5R Watershed Planning	TR01	S	125,000	125,000	75,000	-	-	325,000	-
Anderson County Sewer Master Plan Update	TR13	NS	-	22,877	2,123	-	-	25,000	-
Biosolids Master Planning Phase 2	UK176	NS	-	-	-	300,000	300,000	600,000	-
Durbin Creek Basin Plan Model/Update	PR04	NS	-	88,997	81,003	-	-	170,000	-
Durbin Creek Comprehensive Facility Master Plan	UK130	NS	-	104,505	120,495	-	-	225,000	-
Georges Creek Basin Plan Model/Update	PR06	NS	-	88,997	81,003	-	-	170,000	-
Georges Creek Comprehensive Facility Master Plan	UK131	S	-	94,875	30,125	-	-	125,000	-
Gilder Creek Basin Plan Model/Update	PR05	NS	-	90,369	134,631	-	-	225,000	-
Gilder Creek Comprehensive Facility Master Plan	UK128	NS	83,029	333,942	83,029	-	-	500,000	-
HazenCAP Software Development	PX45	S	50,000	50,000	250,000	50,000	50,000	450,000	-
Lower Reedy Basin Plan Model/Update	PR02	NS	-	90,369	134,631	-	-	225,000	-
Lower Reedy Comprehensive Facility Master Plan	UK127	S	304,388	195,612	-	-	-	500,000	-
Marietta Basin Plan Model/Update	PR07	NS	-	51,883	28,117	-	-	80,000	-
Mauldin Road Basin Plan Model/Update	PR01	NS	24,652	150,379	149,968	-	-	325,000	-
Mauldin Road Comprehensive Facility Master Plan	UK126	S	471,801	303,199	-	-	-	775,000	-
Misc. Basin Master Planning	UK149	RI	92,809	102,007	101,728	101,728	101,728	500,000	-
Misc. Pump Station Studies	UK170	RI	149,589	150,411	150,000	150,000	150,000	750,000	-
North Greenville County Service Area Map	TR05	S	45,616	50,137	4,247	-	-	100,000	-
Pelham Basin Plan Model/Update	PR03	NS	-	120,127	120,127	120,127	29,620	390,000	-
Pelham Comprehensive Facility Master Plan	UK129	NS	-	457,952	292,048	-	-	750,000	-
Permitting Assistance (WW, Air, SWP3, SPCC, Solid Waste, etc.)	UK144	RI	23,202	25,502	25,432	25,432	25,432	125,000	-
Piedmont Regional Basin Plan Model/Update	PR08	NS	-	70,630	77,185	77,185	-	225,000	-
Piedmont Regional Comprehensive Facility Master Plan	UK132	NS	-	92,893	107,107	-	-	200,000	-
Reedy River NPDES Permits	TR02	S	-	81,068	43,932	-	-	125,000	-
South Greenville Sewer Master Plan	TR09	S	45,616	50,137	4,247	-	-	100,000	-
Southeast Greenville Sewer Master Plan	TR14	S	19,989	-	-	-	-	19,989	-
Spartanburg County Service Area Master Plan	UK146	NS	48,844	48,978	4,148	-	-	101,971	-
Stormwater & SPCC Permits	PX23	RI	165,000	-	135,000	-	-	300,000	-
Treatment Process Improvement Evaluations	UK147	RI	95,279	104,721	-	-	-	200,000	-
USRT Plan/Update	UK148	S	268,844	171,156	-	-	-	440,000	-
Various Service Area Studies	B01	RI	185,619	204,013	203,456	203,456	203,456	1,000,000	-
Wet Weather Program	TR06	S	738,480	740,503	366,205	-	-	1,845,189	-
Conveyance System: Lines			21,803,328	34,988,301	16,888,157	10,398,015	11,001,551	95,079,353	87,273,901
Antioch Branch Improvements (Contribution)	PP03	N/A	654,145	160,855	-	-	-	815,000	-
Bessie Branch Sewer Interceptor Upgrade	UK138	NS	-	-	-	-	-	-	2,925,000
Bridge Fork Creek Sewer Upgrade	PK17	S	78,752	6,810	-	-	1,120,000	1,205,562	-
Coachman Estates FM Modifications	PK03	NS	-	-	-	-	-	-	200,000
Downtown Greenville Interceptor Rehab	UK03	NS	-	-	30,000	2,005,000	-	2,035,000	-
Durbin Creek Basin, Howard Branch Sewer Upgrade	UK04	NS	-	-	-	247,070	720,577	967,647	2,182,353
Durbin Creek Basin, Simpsonville Trunk Sewer Upgrade	UK05	NS	-	-	-	-	-	-	2,376,000
Fountain Brook	UK90	D	248,810	21,190	-	-	-	270,000	-
Fountain Inn Creek Gravity Sewer Upgrade	PK12	S	-	-	-	-	321,107	321,107	3,939,893
Furman College Way Sewer Improvement	UK06	NS	-	-	-	-	-	-	1,538,000
Gilder Basin, County Road 107 Downstream Improvements	UK140	S	-	-	-	-	-	-	20,000
County Road 107 Gravity Sewer Upgrade	PK14	S	250,553	500,000	-	-	-	750,553	-
Jonesville Road Pier Repair	TX06	S	-	-	-	108,929	11,071	120,000	-

Project Category and Name	Project ID	Status	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	5-Year Total	Beyond FY 2023
Lakeside/Old Anderson Force Main ARV Replacements	TK05	D	820,727	104,273	-	-	-	925,000	-
Line Right of Way Improvements	TX05	RI	29,918	30,082	30,000	30,000	30,000	150,000	-
Lower Reedy Basin, Laurel Creek Upgrade	UK08	NS	-	-	-	62,651	52,349	115,000	1,076,000
Lower Reedy Basin, Mauldin Branch Upgrades	UK09	NS	-	-	-	376,118	513,882	890,000	7,987,000
NE Laurel Creek (Verdae) Sewer Upgrade	PK16	S	272,111	107,215	2,061,082	1,528,918	-	3,969,326	-
Lower Reedy Basin, Ranch Creek Upgrades	UK11	NS	-	-	-	376,118	513,882	890,000	8,325,000
Unity Park Trunk Sewer	TK13	D	298,013	3,352,941	2,647,059	-	-	6,298,013	-
NGU Interceptor Phase 1	PP02	D	220,000	175,309	1,513,140	311,551	-	2,220,000	-
Pelham Basin - Sandringham Road Replacement	UK12	NS	-	-	-	-	-	-	2,144,020
Pelham Basin, Shannon Drive Replacement	UK13	NS	-	-	-	-	-	-	843,000
Piedmont Basin, East Gantt Branch Upgrade	UK42	NS	-	-	-	-	-	-	250,000
Piedmont Basin, Emily Branch Upgrade	UK160	NS	-	-	-	-	-	-	260,000
Piedmont Basin, Grove Creek Upgrade	UK14	NS	116,660	13,340	-	-	-	130,000	1,250,000
Reedy River Basin Sewer Tunnel	PK11	C	13,100,000	19,800,000	7,100,000	-	-	40,000,000	-
Rock Creek Interceptor Upgrade	TK15	D	2,279,516	9,000,000	762,295	-	-	12,041,811	-
Roper Mtn Road Extension Sewer Line Relocation	TK14	D	125,000	-	-	-	-	125,000	-
Sewer Rehab & Point Repair	TK16	RI	2,677,999	1,674,691	2,336,860	4,538,449	4,850,000	16,077,999	3,670,000
South Durbin Creek Gravity Sewer Upgrade	UK15	NS	-	-	-	-	-	-	761,000
Traveler's Rest Interceptor Upgrade	UK172	S	78,750	-	-	-	-	78,750	26,250
Upper Reedy Gravity Sewer Upgrades	PK13	S	63,971	-	407,720	813,212	69,067	1,353,971	6,000,000
Upper Reedy Gravity Sewer Upgrade, Subsequent Phases	PK15	S	-	-	-	-	799,615	799,615	33,500,385
Wet Weather Program Construction	UK173	NS	-	-	-	-	2,000,000	2,000,000	8,000,000
Peace Center Wyche Pavilion Gravity Sewer Relocation	PK19	N/A	488,405	41,595	-	-	-	530,000	-
Conveyance System: PS & FM			6,620,038	4,539,597	7,657,043	6,041,887	3,243,387	28,101,952	30,927,359
BK PS Upgrade	PL08	D	22,059	-	1,509,934	1,490,066	-	3,022,059	-
Chelsea Woods PS Elimination	TL19	S	-	-	-	-	-	-	550,000
Coachman Estates PS Improvement/Pond Closure	UK163	NS	50,000	287,059	112,941	-	-	450,000	-
Collection System Equipment Upgrades (unidentified)	UK133	RI	143,109	214,663	214,076	214,076	214,076	1,000,000	-
Dunwoody Oaks PS Elimination	PL04	D	1,029,122	494,878	-	-	-	1,524,000	-
Forcemain Assessment	PK10	RI	-	-	228,709	21,291	-	250,000	-
Fountain Inn A Force Main Relocation	UK41	S	-	-	-	228,709	908,564	1,137,273	112,727
Harbortown PS Improvements	UK39	S	-	-	-	-	-	-	260,000
Hillcrest High School PS Elimination	PL09	D	-	-	-	-	-	-	500,000
Conestee Improvements	PA10	D	120,000	-	-	-	-	120,000	24,275,000
Pelham Falls #1 PS Upgrade	TL17	S	-	-	79,427	874,852	623,221	1,577,500	-
Peppertree PS #1 & #2 Elimination	TB12	D	42,385	-	-	593,842	1,181,158	1,817,385	-
Perry Correctional - FM Mag Hyd Corrosion Control	TK06	S	100,000	400,000	-	-	-	500,000	-
Piedmont #2 PS Study	UK40	NS	-	-	218,914	56,086	-	275,000	-
Piedmont #5 PS Odor Control	TL09	D	603,668	107,568	-	-	-	711,236	-
Pine Forest PS Elimination Project (Contribution)	TL18	N/A	322,532	27,468	-	-	-	350,000	-
Piney Rd PS Improvement	TA14	NS	-	20,000	90,774	9,226	-	120,000	-
Ravenwood PS & FM Upgrades	UK169	D	-	-	-	-	100,000	100,000	1,000,000
River Oaks PS Elimination	TB14	S	-	-	-	-	-	-	700,000
Rocky Creek PS & FM	PL10	D	296,426	-	4,303,261	2,553,739	-	7,153,426	-
Saluda #2 PS Improvements	TL11	C	1,300,000	-	-	-	-	1,300,000	-
Saluda #3 PS Improvements	TL12	C	1,300,000	-	-	-	-	1,300,000	-
Saluda #4 PS Elimination	TL13	D	-	-	-	-	216,368	216,368	1,312,632
Simpsonville B PS Elimination	PL05	D	1,240,739	2,386,967	-	-	-	3,627,706	-

Project Category and Name	Project ID	Status	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	5-Year Total	Beyond FY 2023
State Park Rd PS Elimination	PL03	D	50,000	-	-	-	-	50,000	717,000
Travelers Rest East FM Upgrade	UK168	D	-	-	-	-	-	-	1,500,000
Travelers Rest East PS Upgrade	UK02	D	-	600,993	899,007	-	-	1,500,000	-
Renewable Resources			1,626,000	-	-	-	-	1,626,000	1,800,000
Future Renewable Resources Project	UK79	NS	-	-	-	-	-	-	1,800,000
Mauldin Road Solar Improvements	PQ03	D	1,626,000	-	-	-	-	1,626,000	-
Other Priority Projects			4,101,480	2,037,371	1,611,509	1,500,038	1,590,812	10,841,211	22,366,786
Admin. Building Renovations	TX08	RI	200,000	100,000	100,000	100,000	-	500,000	-
Arc Flash Studies	PX39	RI	200,000	50,000	50,000	50,000	50,000	400,000	-
Biosolids Contingency Improvements	UK114	NS	399,351	100,649	-	-	-	500,000	-
Biosolids Masterplan Implementation	UK115	NS	-	-	-	-	-	-	8,000,000
Durbin Creek Spray Field Study	UK143	NS	18,297	1,703	-	-	-	20,000	-
Facility Security Systems and Improvements	PX12	RI	100,000	100,000	100,000	100,000	100,000	500,000	-
Flow Meters	PX19	RI	150,000	150,000	150,000	150,000	150,000	750,000	-
FOG/Septic Receiving Facility Improvement	PA38	S	-	-	-	-	200,000	200,000	3,300,000
Georges Creek Arc Flash Study	UK59	RI	22,693	2,307	-	-	-	25,000	-
LR Office Area Improvements	TC11	NS	-	-	-	-	-	-	140,000
Marietta Regional PF/FM (Elimination of WRRF)	UK75	D	206,795	353,282	29,923	-	-	590,000	9,000,000
Marietta WRRF Decommission	UK165	NS	-	-	-	-	-	-	300,000
Mauldin Rd Demolition	UK122	RI	210,829	316,244	315,380	315,380	315,380	1,473,214	26,786
Mauldin Rd Improvements (Lighting, Road Patching, etc)	UK120	D	122,545	12,455	-	-	-	135,000	-
Mauldin Rd Storage Building	UK121	NS	90,774	9,226	-	-	-	100,000	-
MR Lab/Ops Building Renovation	UK56	NS	-	-	-	-	-	-	1,100,000
MR Operations Control Building Upgrades	UK57	NS	-	-	-	-	-	-	100,000
MR Shop Building Addition	PA32	C	122,997	-	-	-	-	122,997	-
MR West Side Abandonment	TY02	D	272,321	27,679	-	-	-	300,000	-
NGU WRRF Demolition	UK134	NS	-	-	90,774	9,226	-	100,000	-
O&M Capital	B14	RI	750,000	750,000	750,000	750,000	750,000	3,750,000	-
Odor Monitoring and Evaluations	TX02	RI	23,202	25,502	25,432	25,432	25,432	125,000	-
System Wide Biosolids Masterplan	PX46	S	411,676	38,324	-	-	-	450,000	-
Taylor's WRRF Closeout	PY06	D	800,000	-	-	-	-	800,000	-
Travelers Rest East WRRF Decommission	UK166	NS	-	-	-	-	-	-	400,000
WRRF Facilities			16,423,951	17,521,405	17,492,528	16,913,867	13,708,046	82,059,796	54,924,119
Durbin Creek Equipment Replacement (unidentified)	TD08	RI	43,177	51,812	51,670	51,670	51,670	250,000	-
Durbin Creek Hypo Project	UK141	NS	-	-	-	-	-	-	550,000
Durbin Creek Media Replacement	UK80	NS	-	-	-	-	-	-	267,000
Durbin Creek PCS Upgrade	PS03	NS	-	-	-	-	109,231	109,231	1,367,769
Durbin Creek RAS Project	UK142	NS	499,611	50,389	-	-	-	550,000	-
Durbin Creek Thallium Removal System	UK116	NS	-	-	-	-	-	-	2,000,000
Georges Creek Hypo/Biosulfate Upgrade	UK65	S	60,000	113,517	161,483	-	-	335,000	-
Georges Creek Basin Cleaning Water Improvements	UK68	NS	-	-	-	-	-	-	180,000
Georges Creek Drain Valve Replacement	UK66	S	50,000	123,837	176,163	-	-	350,000	-
Georges Creek EQ	TS03	NS	89,011	138,663	22,326	-	-	250,000	-
Georges Creek Equipment Replacement (unidentified)	TH07	RI	64,765	77,718	77,506	77,506	77,506	375,000	-
Georges Creek Nutrient Improvements	UK21	S	-	600,000	-	1,257,705	142,295	2,000,000	-
Georges Creek RAS Relocation	UK64	NS	-	-	-	-	-	-	85,000
Georges Creek Site Improvements	UK67	NS	-	-	-	-	-	-	85,000
Georges Creek Solids Storage Improvements	TW02	D	111,500	-	447,815	892,685	-	1,452,000	-

Project Category and Name	Project ID	Status	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	5-Year Total	Beyond FY 2023
Gilder Creek Equipment Replacement (unidentified)	TG07	RI	360,000	300,000	300,000	300,000	300,000	1,560,000	-
Gilder Creek Hypo System Replacement	UK73	NS	10,000	125,000	-	-	-	135,000	-
Gilder Creek Media Replacement	UK81	RI	-	-	-	-	-	-	431,000
Gilder Creek Ph III - Package 1	PG02	NS	150,000	-	-	4,133,431	7,083,110	11,366,541	1,707,709
Gilder Creek Ph III - Package 5	PG02	C	3,258,003	276,707	-	-	-	3,534,710	-
Gilder Creek Polymer System Replacement	UK74	NS	10,000	125,000	-	-	-	135,000	-
Gilder Creek Sludge Cleaner Replacement	UK72	NS	79,605	20,395	-	-	-	100,000	-
Grove Creek Lower Containment Lagoon Repairs	UK61	NS	-	-	-	-	-	-	250,000
Grove Creek System EQ Pumping/Storage	TS04	D	48,500	-	894,982	-	-	943,482	-
Lower Reedy and Maudlin Rd PCS Upgrade	PS01	C	3,199,465	1,323,614	-	-	-	4,523,080	-
Lower Reedy Belt Filter Press Replacement	UK85	NS	100,000	-	750,000	-	-	850,000	-
Lower Reedy Closed Transition	UK124	C	45,387	4,613	-	-	-	50,000	-
Lower Reedy Digester Complex Improvements Phase 1	TU08	D	4,307,418	8,614,836	3,577,746	-	-	16,500,000	-
Lower Reedy Digester Complex Improvements Phase 2	TU08	D	-	-	381,619	2,067,345	262,655	2,711,619	-
Lower Reedy Equipment Replacement (unidentified)	TC15	RI	214,663	321,994	321,114	321,114	321,114	1,500,000	-
Lower Reedy Media Replacement	UK83	RI	-	-	-	-	-	-	502,000
Lower Reedy Nutrient Removal	UK17	NS	-	-	-	134,262	2,005,738	2,140,000	26,000,000
Lower Reedy Odor Control	PU02	S	-	-	-	-	-	-	4,627,000
Lower Reedy Process Improvements	TC16	D	160,000	646,238	423,762	-	-	1,230,000	-
LR Biological Tank Mixing Evaluation	UK53	S	-	-	-	-	-	-	2,150,000
LR EQ Mixer Replacement	TC09	NS	-	-	-	-	-	-	267,500
LR IPS VFD Improvements	TU07	C	273,656	-	-	-	-	273,656	-
Marietta Equipment Replacement (unidentified)	TJ06	RI	8,635	10,362	10,334	10,334	10,334	50,000	-
Mauldin Rd Chemical Tank Replacement	TA12	D	90,774	9,226	-	-	-	100,000	-
Mauldin Rd Media Replacement	UK167	NS	-	-	-	-	-	-	1,434,000
Mauldin Rd Nutrient Removal	UK19	NS	-	-	-	-	263,859	263,859	3,373,141
Mauldin Rd Process Improvements (Polymer System)	TU16	D	-	868,288	711,712	-	-	1,580,000	-
Mauldin Road Belt Filter Press Replacement	UK84	NS	200,000	-	1,500,000	-	-	1,700,000	-
Mauldin Road Equipment Replacement (unidentified)	TA25	RI	429,326	643,988	642,229	642,229	642,229	3,000,000	-
Mauldin Road Process Improvements Phase 2	TU16	NS	200,000	-	1,300,000	-	-	1,500,000	-
Mauldin Road Wet Weather Pump Station	TU12	D	70,619	-	-	2,590,147	2,044,853	4,705,619	-
MR Blower Improvements	PA29	S	75,000	691,288	58,712	-	-	825,000	-
MR Electrical Loop Extension	TU09	NS	-	-	-	-	-	-	300,000
MR Plant Utility Water System Improvements	PA37	D	-	272,321	27,679	-	-	300,000	-
MR RAS Pump Replacements	UK58	D	58,000	454,191	125,809	-	-	638,000	-
MR Shop Complex	UK171	NS	-	-	-	-	-	-	1,320,000
MR UV Cable Trays (3 banks) and Canopy	UK118	NS	-	-	-	-	-	-	380,000
NGU Regional WRRF	UK162	S	626,712	752,055	3,023,447	3,597,786	-	8,000,000	-
North Greenville Chemical Feed System	TS02	NS	70,000	250,000	-	-	-	320,000	-
Pelham 3-Yr Carbon Replacement	B07	RI	136,161	13,839	-	-	-	150,000	-
Pelham Antimony Removal System	UK119	NS	-	-	-	-	-	-	2,000,000
Pelham Equipment Replacement (unidentified)	TB17	RI	214,663	321,994	321,114	321,114	321,114	1,500,000	-
Pelham Generator Synchronization	TS01	D	544,643	55,357	-	-	-	600,000	-
Pelham Media Replacement	UK82	RI	-	-	-	-	-	-	897,000
Pelham Process Improvements Phase 1	PS04	D	245,000	-	1,168,000	-	-	1,413,000	-
Pelham Process Improvements Phase 2	UK152	NS	-	-	-	-	-	-	1,790,000
Pelham Rd WRRF PCS Upgrade	PS02	NS	-	100,833	944,968	444,199	-	1,490,000	-
Piedmont Equipment Replacement (unidentified)	TF04	RI	60,447	72,537	72,339	72,339	72,339	350,000	-

Project Category and Name	Project ID	Status	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	5-Year Total	Beyond FY 2023
Piedmont Regional Process Air Piping Modifications	TW04	D	200,000	-	-	-	-	200,000	-
Piedmont Regional Solids Storage Study Improvements	UK60	NS	-	-	-	-	-	-	2,520,000
Piedmont Regional VFD Improvement	UK78	NS	-	-	-	-	-	-	440,000
Piedmont Thickener Membrane Replacement	UK76	RI	59,211	90,789	-	-	-	150,000	-
New Service Area			3,229,811	2,027,586	9,150,906	15,091,551	5,861,842	35,361,696	124,240,000
Abner Creek Basin Improvements	UK22	NS	-	-	-	-	-	-	22,420,000
Anderson County - Hurricane Creek Improvements	UK30	NS	-	-	-	-	-	-	17,650,000
Anderson County, Brushy Creek Sewer Phase 1 Improvements	UK26	NS	-	-	-	-	-	-	11,380,000
Anderson County, Brushy Creek Sewer Phase 2 Improvements	UK25	NS	-	-	-	-	-	-	3,340,000
Anderson County, Highway 81 Phase 1 Improvements	UK28	S	676,777	443,223	-	5,138,158	5,861,842	12,120,000	-
Anderson County, Highway 81 Phase 2 Improvements	UK29	S	-	-	-	-	-	-	4,070,000
Fountainbrooke Interceptor Upgrade	PK18	N/A	-	276,515	23,485	-	-	300,000	-
Greenville County Baker Creek Phase 1 Basin Improvements	UK31	NS	-	-	-	-	-	-	3,170,000
Greenville County Baker Creek Phase 2 Basin Improvements	UK32	NS	-	-	-	-	-	-	12,830,000
Greenville County Baker Creek Phase 3 Basin Improvements	UK33	NS	-	-	-	-	-	-	4,480,000
Greenville County Cripple Creek, Phase 1 Improvements	UK34	NS	-	-	-	-	-	-	5,270,000
Greenville County Cripple Creek, Phase 2 Improvements	UK35	NS	-	-	-	-	-	-	3,700,000
Greenville County Future WRRF	UK36	S	2,000,000	-	-	-	-	2,000,000	23,000,000
Greenville County Payne Branch, Phase 1 Basin Improvements	UK24	S	271,444	740,810	3,044,285	5,943,462	-	10,000,000	-
Greenville County Payne Branch, Phase 2 Basin Improvements	UK37	S	-	-	-	-	-	-	-
Greenville County Rays Branch Basin Improvements	UK38	NS	-	-	-	-	-	-	4,930,000
Highway 25 Business Park Phase 1 (East US 25)	TR12	S	167,895	122,105	669,797	2,230,203	-	3,190,000	-
Highway 25 Business Park Phase 2 (West US 25)	UK89	S	-	-	-	-	-	-	4,700,000
Little Durbin Creek Sewer Study	TR04	S	-	-	-	-	-	-	3,300,000
Travelers Rest North Improvements	PL07	D	113,696	444,932	5,413,340	1,779,728	-	7,751,696	-
Retail Collection Systems			1,265,261	820,212	480,652	1,449,901	1,084,447	5,100,474	600,000
NGU Collection System Transfer, Assessment and Rehab	PP01	S	163,088	116,912	480,652	1,449,901	1,084,447	3,295,000	-
Pelzer (Contribution)	UK88	N/A	552,911	47,089	-	-	-	600,000	-
Spartanburg Co. Hwy 417 Basin Improvements (Contribution)	PG14	N/A	549,262	656,212	-	-	-	1,205,474	-
West Pelzer Contribution	UK87	N/A	-	-	-	-	-	-	600,000
Technical Planning and Integration			2,272,298	2,504,026	2,362,493	2,362,492	2,222,492	11,723,802	623,219
Asset Management System Development	B03	NS	400,000	400,000	300,000	300,000	160,000	1,560,000	-
Business IT Projects	UK93	RI	526,370	651,643	649,590	649,589	649,589	3,126,781	623,219
Cityworks PLL	PT03	D	310,638	26,383	-	-	-	337,021	-
GIS System Development	PX02	S	228,974	343,460	342,522	342,522	342,522	1,600,000	-
Project Management KPI Dashboard	PT04	D	90,774	9,226	-	-	-	100,000	-
Technology Updates	PZ02	RI	715,543	1,073,314	1,070,381	1,070,381	1,070,381	5,000,000	-
Contingency			997,260	1,002,740	1,000,000	1,000,000	1,000,000	5,000,000	-
Contingency		N/A	997,260	1,002,740	1,000,000	1,000,000	1,000,000	5,000,000	-
Grand Total			61,277,187	69,702,478	59,448,274	55,785,679	40,572,814	286,786,432	322,755,384

Status Key

- NS - Not Started
- S - Study
- D - Design
- C - Construction
- RI - Reoccurring Initiative
- N/A - Not Applicable